



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/506,997

DATE: 09/15/2004

TIME: 16:21:19

Input Set : A:\SeqListing.txt

Output Set: N:\CRF4\09152004\J506997.raw

3 <110> APPLICANT: ImClone Systems Incorporated  
 W--> 4 <120> TITLE OF INVENTION: Human Antibodies Specific To KDR And Uses Thereof  
 W--> 5 <130> FILE REFERENCE: 11245/47802  
 W--> 6 <140> CURRENT APPLICATION NUMBER: To Be Assigned  
 C--> 7 <141> CURRENT FILING DATE: 2004-09-04  
 8 <150> PRIOR APPLICATION NUMBER: PCT/US03/06459  
 9 <151> PRIOR FILING DATE: 2003-03-04  
 10 <150> PRIOR APPLICATION NUMBER: 60/361,783  
 11 <151> PRIOR FILING DATE: 2002-03-04  
 W--> 12 <160> NUMBER OF SEQ ID: 93  
 13 <170> SOFTWARE: WordPerfect 8.0 for Windows  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 11  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Human  
 21 <400> SEQUENCE: 1  
 23 Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala  
 24 5 10  
 26 <210> SEQ ID NO: 2  
 27 <211> LENGTH: 7  
 28 <212> TYPE: PRT  
 29 <213> ORGANISM: Human  
 31 <400> SEQUENCE: 2  
 33 Asp Ser Ser Asn Arg Ala Thr  
 34 5  
 36 <210> SEQ ID NO: 3  
 37 <211> LENGTH: 9  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Human  
 41 <400> SEQUENCE: 3  
 43 Leu Gln His Asn Thr Phe Pro Pro Thr  
 44 5  
 46 <210> SEQ ID NO: 4  
 47 <211> LENGTH: 11  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Human  
 51 <400> SEQUENCE: 4  
 53 Arg Ala Ser Gln Gly Ile Ser Ser Arg Leu Ala  
 54 5 10  
 56 <210> SEQ ID NO: 5  
 57 <211> LENGTH: 7  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: Human



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61 <400> SEQUENCE: 5
63   Ala Ala Ser Ser Leu Gln Thr
64                               5
66 <210> SEQ ID NO: 6
67 <211> LENGTH: 9
68 <212> TYPE: PRT
69 <213> ORGANISM: Human
71 <400> SEQUENCE: 6
73   Gln Gln Ala Asn Arg Phe Pro Pro Thr
74                               5
76 <210> SEQ ID NO: 7
77 <211> LENGTH: 14
78 <212> TYPE: PRT
79 <213> ORGANISM: Human
81 <400> SEQUENCE: 7
83   Ala Gly Thr Thr Asp Leu Thr Tyr Tyr Asp Leu Val Ser
84                               5                      10
86 <210> SEQ ID NO: 8
87 <211> LENGTH: 7
88 <212> TYPE: PRT
89 <213> ORGANISM: Human
91 <400> SEQUENCE: 8
93   Asp Gly Asn Lys Arg Pro Ser
94                               5
96 <210> SEQ ID NO: 9
97 <211> LENGTH: 10
98 <212> TYPE: PRT
99 <213> ORGANISM: Human
101 <400> SEQUENCE: 9
103   Asn Ser Tyr Val Ser Ser Arg Phe Tyr Val
104                               5                      10
106 <210> SEQ ID NO: 10
107 <211> LENGTH: 13
108 <212> TYPE: PRT
109 <213> ORGANISM: Human
111 <400> SEQUENCE: 10
113   Ser Gly Ser Thr Ser Asn Ile Gly Thr Asn Thr Ala Asn
114                               5                      10
116 <210> SEQ ID NO: 11
117 <211> LENGTH: 7
118 <212> TYPE: PRT
119 <213> ORGANISM: Human
121 <400> SEQUENCE: 11
123   Asn Asn Asn Gln Arg Pro Ser
124                               5
126 <210> SEQ ID NO: 12
127 <211> LENGTH: 12
128 <212> TYPE: PRT
129 <213> ORGANISM: Human

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131 <400> SEQUENCE: 12
133   Ala Ala Trp Asp Asp Ser Leu Asn Gly His Trp Val
134           5                      10
136 <210> SEQ ID NO: 13
137 <211> LENGTH: 10
138 <212> TYPE: PRT
139 <213> ORGANISM: Human
141 <400> SEQUENCE: 13
143   Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn
144           5                      10
146 <210> SEQ ID NO: 14
147 <211> LENGTH: 17
148 <212> TYPE: PRT
149 <213> ORGANISM: Human
151 <400> SEQUENCE: 14
153   Ser Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys
154           5                      10                      15
156   Gly
157   17
159 <210> SEQ ID NO: 15
160 <211> LENGTH: 7
161 <212> TYPE: PRT
162 <213> ORGANISM: Human
164 <400> SEQUENCE: 15
166   Val Thr Asp Ala Phe Asp Ile
167           5
169 <210> SEQ ID NO: 16
170 <211> LENGTH: 10
171 <212> TYPE: PRT
172 <213> ORGANISM: Human
174 <400> SEQUENCE: 16
176   Gly Gly Thr Phe Ser Ser Tyr Ala Ile Ser
177           5                      10
179 <210> SEQ ID NO: 17
180 <211> LENGTH: 18
181 <212> TYPE: PRT
182 <213> ORGANISM: Human
184 <400> SEQUENCE: 17
186   Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
187           5                      10                      15
189   Gln Gly
190   18
192 <210> SEQ ID NO: 18
193 <211> LENGTH: 16
194 <212> TYPE: PRT
195 <213> ORGANISM: Human
197 <400> SEQUENCE: 18
199   Gly Tyr Asp Tyr Tyr Asp Ser Ser Gly Val Ala Ser Pro Phe Asp Tyr
200           5                      10                      15

```

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202 <210> SEQ ID NO: 19
203 <211> LENGTH: 375
204 <212> TYPE: DNA
205 <213> ORGANISM: Human
207 <400> SEQUENCE: 19
209   gag gtc cag ctg gtg cag tct ggg gct gag gtg aag aag cct ggg gcc      48
210   Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
211               5              10              15
213   tca gtg aag gtc tcc tgc aag gct tct gga ggc acc ttc agc agc tat      96
214   Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
215               20              25              30
217   gct atc agc tgg gtg cga cag gcc cct gga caa ggg ctt gag tgg atg      144
218   Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
219               35              40              45
221   gga ggg atc atc cct atc ttt ggt aca gca aac tac gca cag aag ttc      192
222   Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
223               50              55              60
225   cag ggc aga gtc act ttt acc gcg gac aaa tcc acg agt aca gcc tat      240
226   Gln Gly Arg Val Thr Phe Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
227   65              70              75              80
229   atg gag ttg agg agc ctg aga tct gac gac acg gcc gtg tat tac tgt      288
230   Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
231               85              90              95
233   gcg aga gga tac gat tac tat gat agt agt ggc gtg gct tcc ccc ttt      336
234   Ala Arg Gly Tyr Asp Tyr Tyr Asp Ser Ser Gly Val Ala Ser Pro Phe
235               100             105             110
237   gac tac tgg ggc cag gga acc ctg gtc acc gtc tca agc      375
238   Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
239               115             120             125

241 <210> SEQ ID NO: 20
242 <211> LENGTH: 125
243 <212> TYPE: PRT
244 <213> ORGANISM: Human
246 <400> SEQUENCE: 20
248   Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
249               5              10              15
251   Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
252               20              25              30
254   Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
255               35              40              45
257   Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
258               50              55              60
260   Gln Gly Arg Val Thr Phe Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
261   65              70              75              80
263   Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
264               85              90              95
266   Ala Arg Gly Tyr Asp Tyr Tyr Asp Ser Ser Gly Val Ala Ser Pro Phe
267               100             105             110
269   Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

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270          115          120          125
272 <210> SEQ ID NO: 21
273 <211> LENGTH: 333
274 <212> TYPE: DNA
275 <213> ORGANISM: Human
277 <400> SEQUENCE: 21
279   cag tct gtg ctg act cag cca ccc tca gcg tct ggg acc ccc ggg cag      48
280   Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
281           5          10          15
283   agg gtc acc atc tct tgt tct gga agc acc tcc aac atc ggt act aat      96
284   Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Thr Asn
285           20          25          30
287   act gca aac tgg ttc cag cag ctg cca gga acg gcc ccc aaa ctg ctg      144
288   Thr Ala Asn Trp Phe Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
289           35          40          45
291   atc cac aat aat aat cag cgg ccc tca ggg gtc cct gac cga ttc tct      192
292   Ile His Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
293           50          55          60
295   ggc tcc aag tct ggc acc tca gcc tcc ctg gcc atc agt ggg ctg cag      240
296   Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
297   65          70          75          80
299   tct gag gat gag gct gat tat tac tgt gca gca tgg gat gac agc ctg      288
300   Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
301           85          90          95
303   aat ggc cat tgg gtg ttc ggc gga ggg acc aag ctg acc gtc ctg      333
304   Asn Gly His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
305           100         105          110
307 <210> SEQ ID NO: 22
308 <211> LENGTH: 111
309 <212> TYPE: PRT
310 <213> ORGANISM: Human
312 <400> SEQUENCE: 22
314   Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
315           5          10          15
317   Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Thr Asn
318           20          25          30
320   Thr Ala Asn Trp Phe Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
321           35          40          45
323   Ile His Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
324           50          55          60
326   Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
327   65          70          75          80
329   Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
330           85          90          95
332   Asn Gly His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
333           100         105          110
335 <210> SEQ ID NO: 23
336 <211> LENGTH: 348
337 <212> TYPE: DNA

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## VERIFICATION SUMMARY

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L:4 M:283 W: Missing Blank Line separator, <120> field identifier  
L:5 M:283 W: Missing Blank Line separator, <130> field identifier  
L:6 M:283 W: Missing Blank Line separator, <140> field identifier  
L:6 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:12 M:283 W: Missing Blank Line separator, <160> field identifier